

No. 26.

*A Dissertation*  
*on the*  
*Proximate Cause*  
*of*  
*Inflammation*

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*Philadelphia:*

1812

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Constitution, 1841

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# A Dissertation In

The present is an age so replete with discoveries in science & with improvement in the arts, that philosophers are every day becoming less obtuse at innovation; & the inventor of a new thing stands a much better chance now, than formerly of obtaining a hearing & of escaping persecution. We have been so much accustomed to smile at the errors, both speculative & practical, of the great men that have gone before us, that we hardly dare to enter under the banners of any Master, however splendid his genius, or extensive his learning. It has gone all away, & he & his opinions are quite out of fashion. New facts are observed; new experiments are made, which set three fourths of the medical world to wondering, & the remainder to speculating. At length a path is bid to immortality steps forward with a new theory, which

— "pale his brow upon the steps,  
"And then he d no more."

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Such will ever be the state of things, when the truth of any theory, or system can only be inferred from observation, which may have been incorrectly, or from experiments, which may have been carelessly conducted or partially stated. It is from this circumstance that so many disputes have arisen about the proximate cause of inflammation. From Hippocrates, down to the present time it has excited much interest, & given rise to much speculation. Many of the theories on the subject are absurd, & some of them so far from correct, that they ought not to be mentioned for the sake of their authors. The false writings of such men as Boerhaave & Cullen, & the unavoidable failings of the virulent & the good, ought to be blotted from the memory of every philosopher.

The question now is, whether inflammation depend on an increased, or diminished action of the vessels of a part inflamed. Those who favour the idea of increased action, maintain, that the arteries of an inflamed part not only contract, but dilate their diameters beyond

the limits of their capacity.

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what is natural to them in a healthy state. By this increased dilatation, a greater quantity of blood passes through them in a given time than was wont to be the case; those minute branches, which before carried only the coloured part of the blood, now become visible from staining the red globules of that fluid. As this colour the part inflamed becomes tumefied, & there exists in it pain, with increased redness & heat. This, if I mistake not, was the notion entertained upon the subject by Mr John Hall, Glarum & venerable man! But it is concluded, in opposition to such high authorities, that inflammation depends, not on an increased, but on a diminished proportion of the number of the capillaries to the use a target. In short, there is an accumulation, or partial stagnation of blood in the parts inflamed. I think this, instead of shewing an increased action, shows the direct contrary, a diminished action.

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This is the idea I have ever entertained upon the subject, suggested, not by books, but by observation. I mention this, not because I wish to lay any claim to originality, but to convince only such honoured instructors that it is not from any want of deference to their opinion, that, I have ventured to express my sentiments on so interesting a subject as that of the present dissertation.

That the phenomena of inflammation depend on diminished, rather than on increased action of the blood-vessels, I infer,

- I. From the anatomy of the parts concerned in inflammation.
  - II. From some of its remote causes.
  - III. From some of its most successful modes of treatment, &c
  - IV From the experiments of Dr Wilson & of Dr Hennen
- I. It is now proved that, the arteries are not mere elastic tubes, through which the blood passes to every part of the body, like water through a hose.

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*[Faint, mostly illegible handwritten text, possibly bleed-through from the reverse side. The text appears to be organized into several paragraphs.]*

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Like the heart, they are endowed with mus-  
cularity; so that, independent of other influences,  
they can contract their diameter upon the ap-  
plication of an excitation, as all the muscles of the  
body. In proportion as the arteries recede  
from the great central circulation, this  
muscularity is diminished, & in some cases, it is  
entirely obliterated to unite with the  
a branchless blood to any part  
of the body. Performing a similar office with the  
heart, we must suppose that, in the  
arteries, a similar manner. Indeed, it is the  
term of the heart. It is generally  
usually agreed that, with the  
arteries, are actually performing  
absolutely. They allow themselves to  
be extended to a certain extent, &  
their contractility, contract upon  
some of blood forced into them  
as a force. I have  
that, the muscles of the  
endowed with it.

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— 1873 —

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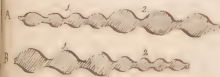
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It is now to be shown, as is required to be  
 at the whole of the abdominal system, as a part  
 of it. Suppose portions to be put in  
 up into the two figures A & B below. It  
 is evident that the greater dilatation in  
 5 of Fig. A can receive full portion 2 of the  
 same figure. Hence, if we suppose portion 2  
 to be carried into greater dilatation than por-  
 tion 5, it will pass a vacuum. Again,  
 having the outlet of portion 5 of figure B  
 to be greater than portion 2 of the same  
 one, it is evident that, if portion 2 is  
 dilated so as to admit all the blood in por-  
 tion 5, there will be a regurgitation. In the  
 by the first of the figures, that  
 action of dilatation will not re-  
 ceived volume of blood in a

Since muscles, as far as we know, are  
 themselves in the application of



J. A.

[illegible]



mean to show, what should be applied to, your  
new conclusions, viz. the human relation the law?  
The common supposition that it was this law, that  
induced the mutation, will, — it is not  
of an eye, and even the human eye is not  
to look for an evidence to the fact; but  
a full — yet a small —  
the whole thing of physiology." C

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when analogy lies all against an action of isolation.

The action of the arteries, then, resembles in every respect that of the heart; & being endowed with a muscular coat, must be subject to the laws of muscular action. Contractility is one of the most striking characters of a muscle. If this contractility be increased, the application of a life stimulant will be necessary to set it into action, & vice versa. If, then, the contractility of an artery be increased, it will push upon & must lift volume of blood to ordinary state of expectability. Whenever, therefore, we observe the pulsations in any part of an artery to be fuller than ordinary, & fuller than the same artery in an opposite side of the body, although the pulsations of the one may be perfectly synchronous with those of the other, we conclude that the former has lost its contractility, or that, in other words, it has lost indirect debility. Now, when it is ascertained as it has to push forward a given volume of blood, it is evident that it cannot act to the

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astent even if it act with the same force as  
 to health state: of course, there will be a  
 retardation, or partial stagnation of blood.  
 This retardation is favoured, in, at least, six  
 times out of ten, by diminished action on  
 the veins; for, there is such an intimate con-  
 nexure between the arteries & veins, that,  
 whatever tends to diminish the power of the  
 one, must produce a similar effect upon the  
 other. I know it is supposed by some that  
 the veins have little or no action, & that, the  
 principal cause of the passage of the blood  
 in them is the combined action of the heart  
 & arteries. "But, as Richerand also says, the pro-  
 pulsive force communicated to this system  
 is less & obliterated in the system of lymphatics  
 vessels, & does not extend to the veins. The  
 action of their own coats, assisted by some  
 nervous powers, is sufficient to send it on  
 in the the breast. In capillary vessels,  
 in a similar manner, in connection with the  
 veins & the lymphatics, for a sufficient work  
 in the system of veins.

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From this account of the anatomy of the parts in which inflammation is seated, it is evident that, increased action will not account for the phenomenon of inflammation. It will not account for the transmigration of an inflamed part. We cannot suppose increased action of the arteries in, at least, a majority of cases, without supposing also an increased action of the sympathetic. In this case the volume of blood ought rather to be diminished than increased.

II I come now to notice some of the most common causes of inflammation. However it may be produced, & wherever it may be seated, inflammation must be considered as a unit. Therefore it is quite unnecessary to mention its local or remote causes, or to dwell upon its particular mode of action. Inflammation may be divided, with respect to its seat, into constitutional & foreign, or into inflammation may arise from local or systemic action; the whole system may be affected, or the action may be confined to a particular part.

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sets It is a law of the animal economy that,  
 the application of violent stimuli to any part  
 shall be succeeded by indirect debility of  
 the part. Daily experience shows us that, in  
 any form the system is raised above the grad  
 of healthy excitement, the most intense we slip  
 descend below it and then the state with  
 quiet in life is possible, as the excitement is  
 more or less removed above the healthy stand  
 ard. It does, I sometimes so understand  
 by, that it is often difficult to determine  
 in a very experiment has been given.  
 Then among disorders have arisen, and the  
 primary effect of opium & digitalis? These  
 were sometimes to be powerful stimuli.  
 perhaps, the very same process, who are con  
 vinced that they both act in all cases  
 will contend that increased action is a  
 moment effect of the powerful stimu  
 lant. But, it seems as if the stimu  
 lant the stimulating effect is a  
 to use an expression after the  
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Use of Laudanum. The application of heat to the body, I understand, is perfectly analogous to that of every other stimulant. It produces, when administered in certain extent, moderate & salutary in all its forms. & even death: depending by turns on decided and four degrees:

1<sup>st</sup> In the first, there is but a slight <sup>redness</sup> ~~injection~~ without swelling, & only a gentle inflammation is excited, that is, slightly subacute."

2<sup>nd</sup> In the second degree the redness is not mixed with swelling, the pain is severe, the inflammation is acute, but it is ~~not~~ <sup>not</sup> in resolution."

3<sup>rd</sup> In the third degree visible cutting a deep or yellow fluid issue is seen, & in a gradual manner, the pain is diminished & suppuration can seldom be prevented."

4<sup>th</sup> In the fourth degree the inflammation is manifested. This happens either in the ~~first~~ <sup>first</sup> or the second stage, after."

Increased action in all the ~~stages~~ <sup>stages</sup> follows immediately on the application of heat. 5<sup>th</sup> The proportion is to the ~~stages~~ <sup>stages</sup> of the inflammation."

*Exposition of the use of Laudanum*

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success the various games of activity. In these  
 matters, however, the great object is to depend not  
 on a strong, but a weak, state of the vessels.

The second measure to be taken is the  
 putting on of gentle strength, or pressure, to  
 prevent the blood from being too much  
 pressed upon the vessels. I readily admit  
 that this is a weak state of the vessels. According to  
 a good deal of late hypothesis, or rather  
 theory, amongst us, the blood is not  
 upon the vessels, but the vessels are  
 of the vessels, from the time as the  
 expelled by the heart, & delayed by the

Force of the vessels, the effect of  
 next sedation upon the blood vessels, it is  
 easier to show in which manner  
 the is produced by the direct  
 I will however that the vessel is  
 suddenly & to a great extent, the  
 sensitive & the same effects, as if  
 of it would have done. But  
 it suffered very much from  
 he had a great deal of  
 saline was much to be seen

—, and a measure of activity of the vessels.

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mantle of fire had fallen upon his head, &  
 the same effects followed. The Chubbless is  
 known to almost every one by such experience.  
 It is produced by the sudden removal of a part  
 or the sudden cooling of a heated part.  
 Like the inflammation of burns, it has four  
 degrees, & sometimes ends in mortification.  
 It would seem not a difficult task to prove  
 whether, in all these cases, to be the proper  
 cause of the inflammation; since cold is a sudor-  
 tory, & must, therefore, produce direct action  
 by inflammation, however, does not seem  
 as the immediate effect of the application of cold  
 to the body. Increased action of the vessels is the  
 first step, & is produced either by the appli-  
 cation of heat or some other stimulus to the  
 increased irritability. Irritability from action  
 succeeds, & is followed by infla-  
 mation is prompt in her operation, & the  
 inflammation may be accompanied by  
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injury from the effect of sudden heat applied  
 as to a larger part, subject, by acting on the  
 over excited system, produces almost instant  
 mortification. Then, the part is prostrated as  
 suddenly, as the whole system would have  
 been in a healthy state by a violent shock  
 of electricity. Had the part been less excitable  
 the very same stimulus would only have pro-  
 duced inflammation. Both effects however are  
 prevented by the moderate application of heat  
 so as to exhaust excitability & to produce a state  
 of equilibrium.

But, then, is the manner in which  
 inflammation results from the direct chemical  
 agents Heat & Cold. I am to show, if it  
 necessary, how the same effects result from the  
 operation of mechanical causes. To do this  
 are all a unit in their application, they  
 all be explained upon the same principle.

III That the position I have assumed in  
 the proposed cause of inflammation is  
 infer, partly from the results of the  
 action that have been found to be  
 but, more especially, from the opposed results

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of breathing burning & scalds. Mr B. Bell says  
 that, in some cases essentially given relief;  
 but, in general, astrigent applications are the  
 best. He prescribes particularly strong brandy  
 or alcohol. According to him the patient should  
 be immersed in spirits. & when this cannot  
 be done, suit old linen saturated with them  
 should be kept constantly on the person.  
 Mr Elphinstone used warm vinegar placed  
 the patient, in cold weather, near a fire. &  
 cold water & ice of low power. Each not only  
 as astringents. Mr He took. ...  
 applied, recommends bala. the first to the  
 face. If that cannot be done ...  
 that we should resort to the ...  
 laudanum, rectified spirit, ...  
 in his opiate oint. ...  
 which he applied spirit to the ...  
 foot of a frog, the inflamed ...  
 blood-vessels which before were  
 really dilated were ...  
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accustomed colicly. How completely unpleasant  
 are these facts upon the principle of in-  
 creased action!

Inflammation from cold is also treated on  
 the stimulating plan. It is recommended to  
 rub the parts affected with spirits of wine & turpentine  
 in equal parts. ~~The following is a good remedy, from~~  
~~Robertson's Dispensary, in which is contained.~~  
 of oil of turpentine & balsam of capivi in equal parts  
 is a celebrated remedy. A mixture of  
 rectified spirits of wine has also been here & there  
 by recommended.

But, the stimulating plan of treating  
 is not confined to the above species of infla-  
 mation. Its good effects are more ex-  
 tending in erysipelas. I have tried it not only  
 on myself, but on others. In a very short  
 the progress of the inflammation was  
 put & finally removed. All that was  
 to pour about half a pint of  
 a little height upon the inflamed part  
 then to rub it with the spirit. In a short  
 I soon reduced an erysipelas of the  
 face, that was extending very much.

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up the leg. My friend Dr. R. after much pers-  
 suasion, at last permitted me to try the same  
 experiment on himself. He had for some time  
 been troubled with erysipelas in the face, which  
 he had endeavored, in vain, to remove. The  
 spots suddenly returned here, & he was well  
 in two days. It is unnecessary to enlarge  
 there on this point. It is remarked by Dr.  
 Ross "a single fact showing that, local dis-  
 eases are our first & best application to  
 the general doctrine on this subject."

IV. What has been said in former papers  
 that action as the proximate cause of  
 motion receives additional support from the  
 arguments of Dr. Wilson. The sup.

"the inflammation had been  
 now in the web of a frog's foot. I applied  
 to it a microscope & found the  
 of the part greatly enlarged &  
 the blood extremely languid &  
 as when inflammation was  
 altogether. It was evident that, when

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"was greatest, the vessels were most debilitated & the motion of the blood slowest. The distention of the vessels, which, in the healthy state, admitted only the colourless part of the blood, was appreciable; for in inflamed parts a much greater number of ~~thousand~~ vessels admitted the red particles than in the sound, & the interstices of these vessels appeared more opaque, probably from the enlargement of innumerable small vessels still too small to admit the proper part of the blood."

"While I was viewing the inflamed surface, that, as I could express in den-  
"ote into action, I could then see in  
"dith this view, I called the inflamed part  
"scattered spots, at the same time  
"the concentrated rays of the  
"enlargement the operation of a  
"blood in all the vessels, except in  
"inflamed parts, began to  
"see activity, & in progress.  
"The surface became  
"The red seemed pale, & it

"The red seemed pale, & it

*[Faint, illegible handwriting in the center of the page, possibly a list or a series of notes.]*

*[Faint, illegible handwriting visible on the right edge of the page, likely from the adjacent page.]*

"opaque."

Further examination was then resorted to the first & last of a list. The experiment with regard was repeated, & with the same result. The experiments were next made on the interior of a scutellid, by which the same appearances were observed there as in the two former cases.

A part of Dr. Wilson's experience by him is reported by Dr. Sten 5; & he also found that increased action all over the body. To an impartial mind, these results would appear perfectly satisfactory. An objection has been urged against a late Reviewer. He does not see the necessity of Dr. Wilson or of the other gentlemen could they have so accurately described selected transparent objects. The changes that might take place in the vessels, could they ascertain would show the same part of the frog, and this is a serious objection.

occasionally, are or views of some of our most.

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gentlemen have made use of are to be taken  
 in their literal sense. But, we are not to  
 look upon Dr. Hume & Dr. Stewart, as a  
 set of impostors who pretended to discuss "three  
 together" theories in the old question, when it was  
 so plain they could not see their own error.  
 They meant to say, merely, that, the  
 Humean part of the page was, because  
 present, but still not so vigorous as to  
 be totally unperceived to English. It  
 both saw what they have said, &  
 reason: In the appearance of  
 on the testimony of a statistic, the  
 to burst his own eyes, but a  
 explained part himself, under the  
 sensation of Mr. Bonston, a  
 acquaintance with his view.  
 experiment Mr. Bonston  
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 count of what he observed  
 Dr. Hume has given a  
 explanation of the intellect  
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 experiment too, and so we view as, some of our impo-

J. H.

July 1942

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$$\frac{d}{dt} \left( \frac{1}{2} m v^2 \right) = \mathbf{F} \cdot \mathbf{v}$$

Sept.

Aug 1891

1. 1. 1.

$$f(x) = 3x$$

## Methods

1912

21. 1

*[Faint handwritten notes]*

4.  $\frac{1}{2} \frac{d}{dt} \left( \frac{1}{2} \frac{d}{dt} \right)$

14

3

92

4.

1866

100



I must confess that, I am not perfectly satisfied with Dr Stevens's definition of the proximate cause of inflammation. In one part he has gone too far & in another not far enough. I do not understand how debility by & morbid action can exist in the same part <sup>thing</sup> at the same time. Dr Stevens, too, should have said that inflammation arises from absolute as well as relative debility of the small vessels. - It is, however, a difficult thing to give a very concise definition of the <sup>moderate</sup> cause of a disease. We usually mean by it the disease itself, & therefore, it is necessary to enumerate all those particulars which constitute what it is. If this be true, inflammation, or what is the same thing, the proximate cause of inflammation, may be defined.

That state of a part, in which there is absolute or relative debility of its smaller vessels, inviting the accumulation, or partial stagnation of a greater quantity of blood, than is natural to it in a healthy state.

appearing too, are so viewed as terms of one complex.

all the world is full of  
the same things, and  
every body is  
like a  
tree?  
follow  
I of course  
be well  
as much  
be true  
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I have thus endeavoured, & I hope it  
 will not be thought presumptuously, to disprove  
 the doctrine of increased action. After all, it  
 may be asked, of what use is all this conten-  
 tious about the proximate cause of inflammation?  
 It has been successfully treated by the  
 followers of Boerhaave, of Cullen & of Hunter.  
 If we should chance to be right, & they to  
 be wrong its mode of treatment must be  
 as we found it. This may, perhaps, be  
 true: But, in reply, I will say that many  
 a blind man has found his way, by grop-  
 ing & by blundering, for years, perhaps, in the  
 every lane, alley, & street of London or Phila-  
 delphia, but, should he then find the light of  
 feet of all at once he should be glad to  
 proceed quicker & surer by the blessed light  
 of Heaven? And shall any man be indifferent  
 about the blessed light of our principles?  
~~I am, Sir, your obedient servant~~  
~~Wm. W. W.~~  
~~Wm. W. W.~~

Finis.

expressing no, are so viewed as, terms of our property.

*[Faint, illegible handwriting, likely bleed-through from the reverse side. The text is arranged in several paragraphs across the page.]*

*[Faint handwriting visible on the edge of the adjacent page to the right.]*